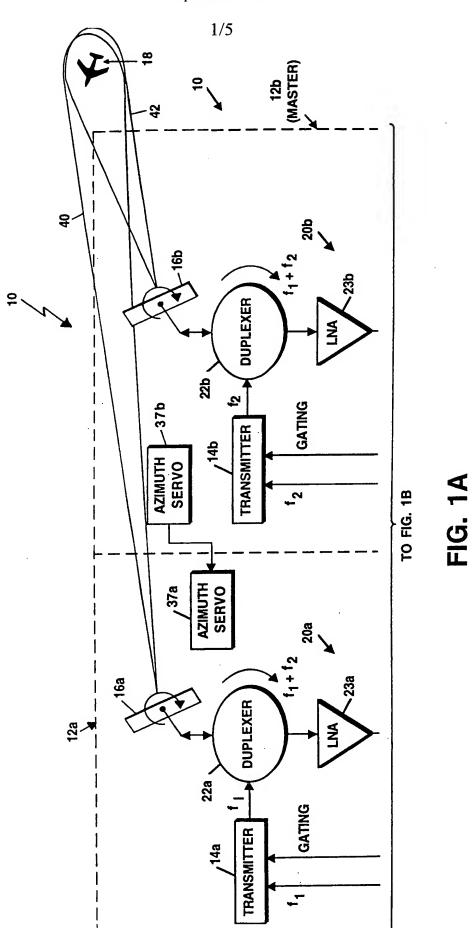
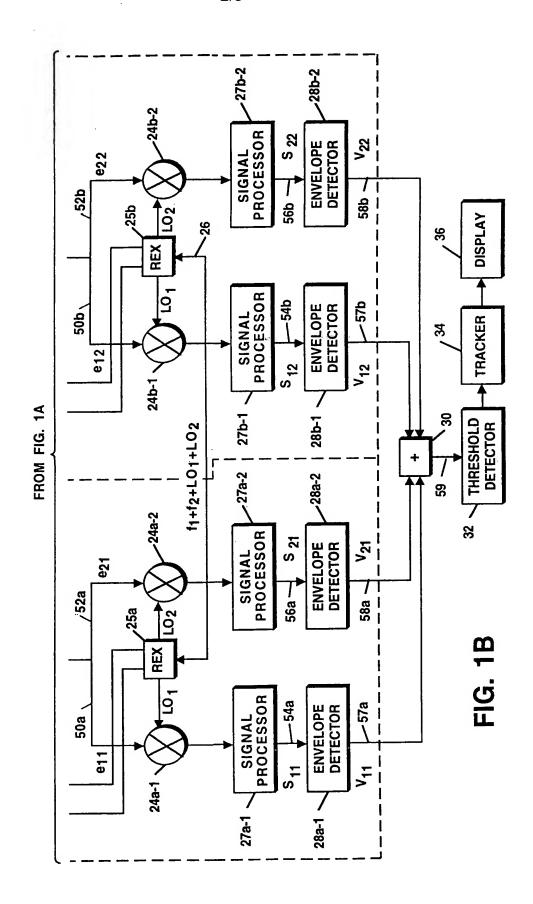
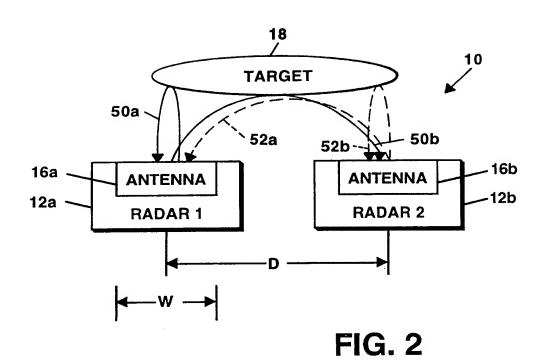
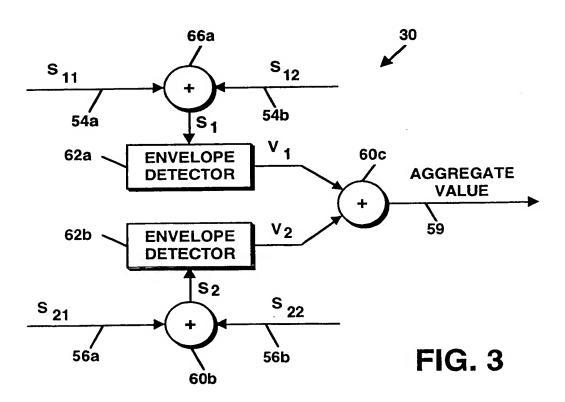


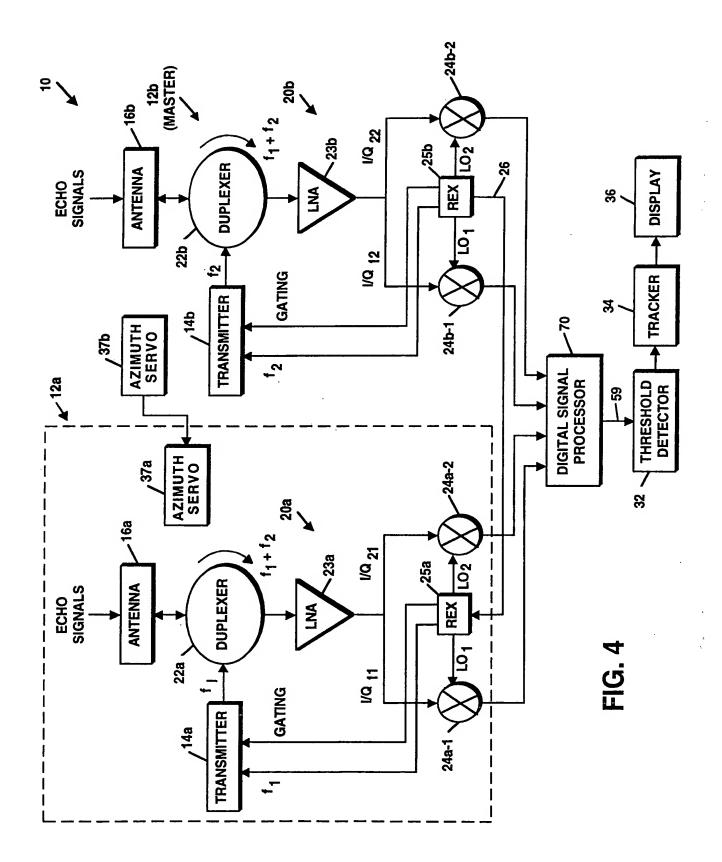
Appl. No. 10/684,081 Reply to Office Action of December 17, 2004 Replacement Sheet











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SNR	Sensitivity	Improvement	(dB)	9~		9~				6~	6~		9~		9~		8.7	
Type of Target				Non-fluctuating		Non-fluctuating				Non-fluctuating	Non-fluctuating		Non-fluctuating		Non-fluctuating		Swerling-II	
How	Waveforms	Transmitted		Simultaneously	-	Simultaneously				Simultaneously	Simultaneously		Sequentially		Sequentially		Simultaneously	
Receiver	Processing of	S11, S12 and	S ₂₁ , S ₂₂	Incoherent	(as shown in FIG. 1)	Coherent +	Incoherent	(as shown in	FIG. 3)	Coherent	Coherent +	Incoherent	Incoherent		Coherent +	Incoherent	Incoherent	
Coherent or	Incoherent	on Transmit		Incoherent		Incoherent				Coherent	Coherent		Incoherent		Incoherent		Incoherent	
Carrier	Frequencies	for Radar 1 (f1)	and Radar 2 (f ₂)	$f_1 \neq f_2$		f ₁ ≠f ₂		•		f ₁ =f ₂	f ₁ =f ₂		$f_1 = f_2$		$f_1 = f_2$		$f_1 \neq f_2$	
Mode				Search/	Track	Search/	Track			Track	Track		Search/	Track	Search/	Track	Search/	Track

FIG. 5